for Claim Amendments showing a marked up version of the amendments to the Abstract.

ABSTRACT OF THE DISCLOSURE

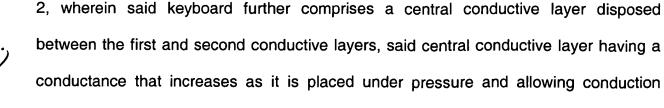
The present invention relates to a foldable alpha numeric keyboard device (2301) configured to input data items into a computer or similar processing device (2307). The keyboard device comprises a first electrically conductive fabric sheet, a second electrically conductive fabric sheet and an interface circuit configured to supply voltages to and receive outputs from said keyboard. In addition; the keyboard is configured to produce an output in response to a mechanical interaction and the interface circuit is arranged to respond to the mechanical interaction and to provide a data item to a computer or similar processing device.

IN THE CLAIMS

Please amend Claims 3, 5, 6, 10 – 12, 14 – 18, 20 – 21, 22 and 24, in accordance with the following rewritten claims in clean form. Applicant includes herewith an Attachment for Claim Amendments showing a marked up version of each amended claim.

between said first layer and said second layer in response to a mechanical interaction.

(Amended) A foldable alpha-numeric keyboard device according to claim



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- 5. (Amended) a foldable alpha-numeric keyboard device according to claim 1, wherein said keyboard further comprises at least one electrically insulative masking layer disposed between said first electrically conductive fabric sheet and said second electrically conductive fabric sheet, said masking layer defining a plurality of holes through which electrical contact between first electrically conductive fabric sheet and a second electrically conductive fabric sheet can occur.
- 6. (Amended) a foldable alpha-numeric keyboard device according to claim 1, wherein a plurality of key outlines are defined on said keyboard device, and said keyboard device includes a number of key registration devices configured to assist compression of said fabric layers within a particular one of said key outlines.
- 10. (Amended) A foldable alpha-numeric keyboard device according to claim 9, wherein each of said key registration devices has a dome-like configuration and when under pressure, each said key registration device deforms inwardly from a first position until at a second position resistance to deformation is suddenly reduced, while on release of said pressure said key registration device returns to its dome-life configuration.
- 11. (Amended) A foldable alpha-numeric keyboard device according to claim 9, wherein a key registration device is located above said plurality of fabric sheets and Attorney Docket No. 9637-000035



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said key registration device includes a base having a surface for attachment to one of said fabric sheets and a pressure focusing means, wherein said pressure focusing means is configured to apply a force to an area of said sheets when said key registration device is under pressure, and said pressure focusing means is configured such that said area is smaller than said base attachment surface.

- 12. (Amended) A foldable alpha-numeric keyboard device according to claim 2, wherein said first of said fabric sheets includes conducting yarns electrically grouped to define a plurality of conducting rows, said second of said fabric sheets includes conducting yarns electrically grouped to define a plurality of conducting columns and the intersections of said rows and columns define separate regions of said keyboard device.
- 14. (Amended) A foldable alpha-numeric keyboard device according to claim 12, wherein said interface circuit is configured to apply a voltage across a particular one of said regions and to provide an output indicative of the position of the mechanical interaction within said particular region.
- 15. (Amended) A foldable alpha-numeric keyboard device according to claim 12, wherein said interface circuit is configured to apply a voltage across a larger region defined by a plurality of said separate regions and to provide an output indicative of the position of the mechanical interaction within said larger region.

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- 16. (Amended) A foldable alpha-numeric keyboard device according to claim
 14, wherein at least one of said separate regions corresponds to a plurality of different
 keys and a plurality of said separate regions each correspond to one key only.
- 17. (Amended) A foldable alpha-numeric keyboard device according to claim 12, wherein said first fabric layer includes conductive fibres extending in a first direction and non-conducting fibres extending in a second direction, said second fabric layer includes conductive fibres extending in a third direction and non-conducting fibres extending in a fourth direction, such that said third direction is different to said first direction.
- 18. (Amended) A foldable alpha-numeric keyboard device according to claim 2, wherein said interface circuit has two electrical connections only to each of said first and second conducting layers.
- 20. (Amended) A foldable alpha-numeric keyboard device according to claim 18, wherein said electrical connections are made to opposing edges of said first conductive layer and to opposing edges of said second conductive layer.
- 21. (Amended) A foldable alpha-numeric keyboard device according to claim 18, wherein said interface circuit includes

a voltage supply means configured to apply a voltage across said first conducting

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a voltage measurement means configured to measure a first voltage;

a voltage supply means configured to apply a voltage across said second conducting layer;

a voltage measurement means configured to measure a second voltage; and output means configured to provide an output dependent on said first and second voltages, indicative of the position of said mechanical interaction.

- 22. (Amended) A foldable alpha-numeric keyboard device according to claim 1, wherein said device provides an output indicative of the pressure applied by said mechanical interaction.
- 24. (Amended) A foldable alpha-numeric keyboard device according to claim 22, wherein, in response to a mechanical interaction, two measurements are made representing said resistance between the first and second electrically conductive layers of the keyboard and an output indicative of a mechanical interaction is provided.